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	Application No.	Applicant(s)	
Notice of Allowability	09/648,164	CHYAN ET AL.	
	Examiner	Art Unit	
	Thomas L Dickey	2826	
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R	(OR REMAINS) CLOSED in or other appropriate commining the second	n this application. If not included unication will be mailed in due co	d ourse. <b>THIS</b>
1. This communication is responsive to <u>amendment filed 11/0</u>	<u>)5/2004</u> .		
2. The allowed claim(s) is/are <u>1-19</u> .			
3. The drawings filed on 16 July 2002 are accepted by the Ex	caminer.		
<ul> <li>4. Acknowledgment is made of a claim for foreign priority ur</li> <li>a) All b) Some* c) None of the:</li> <li>1. Certified copies of the priority documents have</li> <li>2. Certified copies of the priority documents have</li> <li>3. Copies of the certified copies of the priority documents</li> </ul>	be been received. been received in Application	on No	on from the
International Bureau (PCT Rule 17.2(a)).	Sumerits have been receive	o in this national stage application	on nom the
* Certified copies not received:		•	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the requ	irements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached EXA es reason(s) why the oath o	AMINER'S AMENDMENT or NO r declaration is deficient.	TICE OF
<ol> <li>CORRECTED DRAWINGS (as "replacement sheets") must</li> <li>(a) ☐ including changes required by the Notice of Draftspers</li> <li>1) ☐ hereto or 2) ☐ to Paper No./Mail Date</li> <li>(b) ☐ including changes required by the attached Examiner's</li> </ol>	on's Patent Drawing Review		
Paper No./Mail Date			
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in t	.84(c)) should be written on t he header according to 37 CF	he drawings in the front (not the b R 1.121(d).	ack) of
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT	SIT OF BIOLOGICAL MATI FOR THE DEPOSIT OF BIO	ERIAL must be submitted. No DLOGICAL MATERIAL.	ote the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	<u> </u>	formal Patent Application (PTO-	152)
	Paper No./	ummary (PTO-413), Mail Date	,
<ol> <li>Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date</li> </ol>	8), 7. ∐ Examiner's	Amendment/Comment	
4. Examiner's Comment Regarding Requirement for Deposit		Statement of Reasons for Allow	
of Biological Material	9. 🗌 Other	- concle	moon
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Minnioan Tran
Primary Examiner
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## **REASONS FOR ALLOWANCE**

1. The following is an examiner's statement of reasons for allowance:

Claims 1-19 are allowed over the references of record for the following reasons:

A. Claims 1-14 are allowed over the references of record because none of these references disclosed or can be combined to yield the claimed invention such as an integrated circuit structure comprising a semiconductor layer having a major surface formed along a plane; first and second spaced-apart doped regions formed in the surface; a third doped region over the first region of different conductivity type than the first region; and a conductive layer formed between the first and second regions and above the plane, providing electrical connection between the doped regions, wherein the conductive layer comprises one or more materials taken from the group comprising tungsten silicide, tungsten nitride, titanium silicide, titanium nitride and cobalt silicide, as recited in claims 1 and 9, or further having the properties that the first and second spaced-apart doped regions extend into the surface from the plane and the third doped region of different conductivity type is monocrystalline, as recited in claim 1.

**B.** Claims 15-18 are allowed over the references of record because none of these references disclosed or can be combined to yield the claimed invention such as a semi-conductor device comprising a first layer of semiconductor material; a first field effect transistor having a first source/drain region formed in the first layer, a channel region formed over the first layer and a second source/drain region formed over the channel

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region; a second field effect transistor having a first source/drain region formed in the first layer, a channel region formed over the first layer and a second source/drain region formed over the channel region; and a conductive layer in a plane extending between the first layer and the first field effect transistor channel region, said conductive layer comprising a metal positioned between the first source/drain region of each transistor to conduct current from one first source/drain region to the other first source/drain region, as recited in claim 15.

- C. Claim 19 is allowed over the references of record because none of these references disclosed or can be combined to yield the claimed invention such as a semiconductor device comprising: a first layer of semiconductor material; a first field effect transistor having a first source/drain region formed in the first layer, a channel region formed over the first layer and a second source/drain region formed over the channel region; a second field effect transistor having a first source/drain region formed in the first layer, a channel region formed over the first layer and a second source/drain region formed over the channel region; and a conductive layer comprising a metal positioned between the first source/drain region of each transistor to conduct current from one first source/drain region to the other first source/drain region, wherein the conductive layer comprises a metal silicide.
- 2. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accom-

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pany the issue fee. Such submissions should be clearly labeled "Comments on State-

ment of Reasons for Allowance."

Conclusion

3. Any inquiry concerning this communication or earlier communications from the ex-

aminer should be directed to Thomas L Dickey whose telephone number is 571-272-

1913. The examiner can normally be reached on Monday-Thursday 8-6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's su-

pervisor, Nathan J Flynn can be reached on 703-308-6601. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published appli-

cations may be obtained from either Private PAIR or Public PAIR. Status information

for unpublished applications is available through Private PAIR only. For more informa-

tion about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions

on access to the Private PAIR system, contact the Electronic Business Center (EBC) at

866-217-9197 (toll-free).

TLD

11/2004